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CIA-RDP86-00513R001755410001-7



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CIA-RDP86-00513R001755410001-7"

TERENT'YEV, ^Y_E.

"Repairing a crystal adapter."

So. Radio, Vol. 1, p. 47, 1952

TERENT'YEV, YE.

Sound--Recording and Reproducing

Repair of the piezoelectric sound pickup. Radio 29, no. 1, 1952.

APRIL 1952

9. Monthly List of Russian Accessions, Library of Congress, _____, Unc1.

107-57-2-15/56

AUTHOR: Terent'yev, Ye. (Chastsy, Moscow oblast)

TITLE: A Shield for Magnetic Heads. Experience Exchange
(Ekran dlya magnitnykh golovok. Obmen opytom)

PERIODICAL: Radio, 1957, Nr 2, p 17 (USSR)

ABSTRACT: A metal can from "Asidol" is recommended for use as a shield for
tape-recorder magnetic head.

AVAILABLE: Library of Congress

Card 1/1

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TERENT'YEV, Ye. I.

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CIA-RDP86-00513R001755410001-7"

VINograd, M.I.; Kaplan, A.S.; Terent'Yev, Ye.A.

Methods for determining nonmetallic inclusions in steel. Standardization 24 no.8:26-30 Ag '60.
(MIRA 13:9)
(Steel--Testing)

BALAKINA, I.A.; BOCHKAREVA, A.I.; GORZHEVSKAYA, A.V.; KAPLAN, A.S.;
SMOLYARENKO, D.A., kand. tekhn.nauk; TERENT'YEV, Ye.A.i. SOTS,
G.A.; TREMBITSKIY, Ya.V.; ULINSKAYA, Ye.I.; KHUTORSKAYA, Ye.S.,
red. izd-va; KLEYNMAN, M.R., tekhn. red.

[Technical specifications in effect on products of ferrous metal-
lurgy; list as of October 1, 1961] Deistvuiushchie tekhnicheskie
usloviiia na produktsiu chernoi metallurgii; perechen' po
sostoianiiu na 1 oktiabria 1961 g. Moskva, Metallurgizdat,
(MIRA 15:5)
1962. 141 p.

1. Moscow. TSentral'nyy nauchno-issledovatel'skiy institut chernoy
metallurgii.
(Iron industry--Tables and ready-reckoners)
(Steel industry--Tables and ready-reckoners)

TERENT'YEV, Ye.A.

Steel for ball and roller bearings. Standartizatsiia 25 no.1:43-44
Ja '61. (MIRA 14:3)
(Steel, Structural--Standards)

AFONCHIKOV, N.A., inzh.; TERENT'YEV, Ye.A., inzh.

Application of polyacrylamide for better preservation of fillers
in paper. Bum. prom. 36 no.11:22-25 N '61. (MIRA 15:1)

1. Leningradskaya bumazhnaya fabrika Upravleniya proizvodstvom
gosudarstvennykh znakov, monet i ordenov.
(Acrylamide)
(Paper industry)

SMOLYARENKO, D.A.; TERENT'YEV, Ye.A.

Capped steel. Metalloved. i term. obr. met. no.7:20-23 J1 '63.
(MIRA 16:7)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy
metallurgii.

(Steel--Metallurgy)

COUNTRY : USSR
CATEGORY : Cultivated Plants. Grains. Leguminous Grains.
Tropical Cereals.

RES. NUMBER : Red Book Collection, No. 3, 1959, No. 2759

AUTHOR : Terent'yev, V. G.
INST. : Voronezh Agric. Inst.
TITLE : Results of Comparative Trials of Corn Varieties and Crosses.

ORIG. PUB.: Zap. Voronezhsk. s.-kh. Insta, 1957, 27,
No. 2, 141-147

ABSTRACT : In experiments made in 1955-1956 the productivity of varieties and hybrids of corn with different vegetation periods was studied, when they were raised for ensilage. Study was also made of the problems involved in seed raising of late maturing varieties by cultivating seedlings in hothouses and using unripe seeds for sowing. The harvest of silage and air dried stalks of the late maturing varieties doubled the output of the

Author : 1/2

COUNTRY :

SOURCE : cultivated plants.

ADS. JOURN. *Agrobiologiya*, 1979, No. 6230

EDITION :

TYPE :

DATE :

ORIG. PUB.:

ABSTRACT : local variety Voronezhskaya 76, although the rapid ripening varieties Voronezhskaya 76 and Gorets Rannyy were distinguished by their yields of cobs. In Voronezhskaya Oblast it is possible to obtain seeds from the mid-late season varieties by hothouse cultivation, however the method is very laborious and is justifiable only with high yields. The harvesting qualities of milky-waxy and dead-ripe seeds are identical.--N.Ya.Vorontsova

CARD :

2/2

TERENT'YEV, Ye. I., klinicheskiy ordinator

Acrichine content in the blood in acrichine "psychosis" in
animals. Trudy Novosib. gos. med. inst. 37:189-192 '61.
(MIRA 15:7)

(QUINACRINE--TOXICOLOGY) (PSYCHOSES)

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CIA-RDP86-00513R001755410001-7"

BEFANI, N.F.; TERENT'YEV, Ye.V.; LALYKIN, N.V.; BEFANI, A.N., prof., doktor
tekhn.nauk, otv.red.

Materials on experimental investigation of rain-water infiltration
during the period 1953-1954] Materialy eksperimental'nykh issledovanii
vpityvaniia livneykh vod za 1953-1954 gody. Izd-vo Kievskogo gos.
univ. 1956. 214 p. (Odessa. Gidrometeorologicheskii institut. Trudy
no. 9).

(Ukraine--Soil percolation) (Moldavia--Soil percolation) (MIR: 12:4)

16/07/01 YEV

ABRAMOV, S.K., kand.tekhn.nauk; AVERSHIN, S.G., prof., doktor tekhn.nauk; AMMOSOV, I.I., doktor geol.-min.nauk; ANDRIYEVSKIY, V.D., inzh.; ANTROPOV, A.N., inzh.; AVANAS'YEV, B.L., inzh.; BERGMAN, Ya.V., inzh.; BLOKHA, Ye.Ye., inzh.; BOGACHEVA, Ye.N., inzh.; BUKRINSKIY, V.A., kand.tekhn.nauk; VASIL'YEV, P.V., doktor geol.-min.nauk; VINOGRADOV, B.G., inzh.; GOLUBEV, S.A., inzh.; GORDIYENKO, P.D., inzh.; GUSEV, N.A., kand.tekhn.nauk; DOMOKHIN, I.V., kand.geol.-min.nauk; KALMYKOV, G.S., inzh.; KASATOCHKIN, V.I., doktor khim.nauk; KOROLEV, I.V., inzh.; KOSTLIVTSEV, A.A., inzh.; KRATKOVSKIY, L.F., inzh.; KRASHENNIKOV, G.P., prof., doktor geol.-min.nauk; KRIKUNOV, L.A., inzh.; LEVIT, D.Ye., inzh.; LISITSA, I.G., kand.tekhn.nauk; LUSHNIKOV, V.A., inzh.; MATVEYEV, A.K., dots., kand.geol.-min.nauk; MEGURISHVILI, G.Ye., inzh.; MIRONOV, K.V., inzh.; MOLOCHANOV, I.I., inzh.; NAUMOVA, S.N., starshiy nauchnyy sotrudnik; NIKIPILOV, V.Ye., inzh.; PAVLOV, F.F., doktor tekhn.nauk; PANYUKOV, P.H., doktor geol.-min.nauk; POPOV, V.S., inzh.; PYATLIN, M.P., kand.tekhn. nauk; RASHKOVSKIY, Ya.Z., inzh.; ROMANOV, V.A., prof., doktor tekhn. nauk; RYZHOV, P.A., prof., doktor tekhn.nauk; SELYATITSKIY, G.A., inzh.; SPERANSKIY, M.A., inzh.; TIRENT'YEV, Ye.V., inzh.; TITOV, N.G., doktor khim.nauk; GOKAREV, I.F., inzh.; TROYANSKIY, S.V., prof., doktor geol.-min.nauk; FEDOROV, B.D., dots., kand.tekhn.nauk; FEDOROV, V.S., inzh. [deceased]; KHOMENTOVSKIY, A.S., prof., doktor geol.-min.nauk; TROYANOVSKIY, S.V., otvetstvennyy red.; TERPIGOROV, A.M., red.; KRIKUNOV, L.A., red.; KUZNETSOV, I.A., red.; MIRONOV, K.V., red.; AVERSHIN, S.G., red.; BURTSEV, M.P., red.; VASIL'YEV, P.V., red.; MOLOCHANOV, I.I., red.; RYZHOV, P.A., red.; BALANDIN, V.V., inzh., red.; BLOKH, I.M., kand. tekhn.nauk, red.; BUKRINSKIY, V.A., kand.tekhn.nauk; red.; VOLKOV, K.Yu., inzh., red.; VOROB'YEV, A.A., inzh., red.; ZVONAREV, K.A., prof. doktor tekhn.nauk, red.

(Continued on next card)

ABRAMOV, S.K.-- (continued) Card 2.

ZDANOVICH, V.G., prof., doktor tekhn.nauk, red.; IVANOV, G.A., doktor geol.-min.nauk, red.; KARAVAYEV, N.M., red.; KOROTKOV, O.V., kand.geol.-min.nauk, red.; KOROTKOV, M.V., kand.tekhn.nauk, red.; MAKKAVEYEV, A.A., doktor geol.-min.nauk, red.; OMEL'CHENKO, A.N., kand.tekhn.nauk, red.; SEMERZON, E.M., kand.geol.-min.nauk, red.; USHAKOV, I.N., dots., kand.tekhn.nauk, red.; YARLOKOV, V.S., kand.geol.-min.nauk, red.; KOROLEVA, T.I., red.izd-va; KASHALIKINA, Z.I., red.izd-va; PROZOROVSKAYA, F.L., tekhn.red.; NADREINSKAYA, A.A., tekhn.red.

[Mining; an encyclopedic handbook] Gornoe delo; entsiklopedicheskii spravochnik. Glav. red. I.M.Tarpigorev. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po ugol'noi preryshl. Vol.2. [Geology of coal deposits and surveying] Geologiya ugol'nykh mestorozhdenii i marksheiderskoe delo. Redkolegiia tetsa S.V.Trojanskiy. 1957. 646 p. (MIRA 11:5)

1. Chlen-korrespondent AN SSSR (for Karavayev)
(Coal geology--Dictionaries)

TERENT'YEV, Ye.V., assistant

Experimental studies on losses of rain-water runoff. Trudy OGMI
no.15:103-114 '58. (MIRA 12:7)

1.Odesskiy gidrometeorologicheskiy institut.
(Runoff)

(disc)
TERENT'YEV, Ya.V., Cand. Tech. Sci. —, "Calculation of losses of
cloudburst waters and cloudburst water formation ^{th2} in Southern
Ukraine." Kiev, 1959. 16 pp with drawings (In of Higher Educa-
tion UkrSSR. Kiev Inst of Water Resources), 150 copies
(KL,27-59,121)

- 41 -

S/050/60/000/06/18/021
B007/B007

AUTHORS: Terent'yev, Ye. V., Shvebs, G. I.

TITLE: Anatoliy Nikolayevich Befani (On the Occasion of the 50th Anniversary of His Birthday)

PERIODICAL: Meteorologiya i gidrologiya, 1960, No. 6, pp. 50-51

TEXT: This is a short biography of Professor, Doctor of Technical Sciences, Head of the kafedra gidrologii Odesskogo gidrometeorologicheskogo instituta (Chair of Hydrology at the Odessa Hydrometeorological Institute) Anatoliy Nikolayevich Befani. Befani began his scientific activities in the early thirties; in 1938 he was confirmed and graduated without a dissertation as Candidate of Technical Sciences for a number of works in the field of melioration and hydrology, and in 1940 he graduated as Doctor of Technical Sciences. His dissertation was entitled "The General Theory of the Runoff on the Surface and Its Application in the Field of Hydraulic Engineering, Melioration, and Road-building". He began his practical activities in 1930. From 1934 to 1946 he first

Card 1/2

Anatoliy Nikolayevich Befani (On the
Occasion of the 50th Anniversary of His
Birthday)

S/050/60/000/06/18/021
B007/B007

worked as Docent, and later as Head of the kafedra gidrologii Omskogo sel'skokhozyaystvennogo instituta (Chair of Hydrology at the Omsk Agricultural Institute). Since 1946 he has been Head of the same Chair at the Odesskiy gidrometeorologicheskiy institut (Odessa Hydrometeorological Institute). Mention is made of his two monographs and his article, which is ready for print, on the "Fundamentals of the Theory of Subsurface Flow". Befani published a total of 34 scientific works in the Soviet Union as well as abroad. In 1958 he lectured in Bulgaria. At the extended session of the Sovet Odesskogo gidirometeorologicheskogo instituta (Council of the Odessa Hydrometeorological Institute) he was handed an honorary document by order of the Glavnoye upravleniye gidirometeosluzhby (Main Administration of the Hydrometeorological Service) by the Director of this Institute.

Card 2/2

TERENT'YEV, Ye.V.

Paleogene lignite basin in northwestern Hungary. Izv. vys. ucheb. zav.;
geol i razv. 7 no.10:67-74 0 '64.
(MIRA 18:7)

1. Treat "Luganskgeologiya".

TERENT'YEV, Ye.V.

Neogene lignite basin in northeastern Hungary. Izv. vys.
ucheb. zav.; geol. i razv. 7 no.12:69-77 D '64.

1. Trest "Artemugol".

(MIRA 18:12)

TERENT'IEV, Yu.

Plotting altitude lines of position during changes in the
position of a ship. Mor. flot 23 no.1:24 Ja '63.
(MIRA 16:4)

1. Starshiy shturman parokhoda "Povolzh'ye" Severnogo paro-
khodstva.

(Nautical astronomy)

TERENT'YEV, Yu. A.

Experience with the operation of the Heppler consistometer.
Izv. vys. ucheb. zav.; pishch. tekhn. no. 2:143-147 '64.
(MIRA 17:5)

TERENT'YEV, Yu.A., inzh.; POPOV, V.D., doktor tekhn. nauk;
KOT, Yu.D., kand. tekhn. nauk; YASINSKAYA, T.V., inzh.

Rheological properties of sugar masses. Pishch. prom.
no.1:38-46 '65. (MIRA 18:11)

KACHLISHVILI, N.Z.; BASKAKOV, N.P.; TERENT'YEV, Yu.G.; SHAN'GIN,
A.N.

Circulation loss control in the Karabylakskaya-Achaluki area.
Neft. khoz. 39 no.6:19-23 Je '61. (MIRA 14:8)
(Chechen-Ingush A.S.S.R.--Oil well drilling fluids)

KOCHANOVSKIY, N.Ye., kand.tekhn.nauk, rei.; GROMYKO, L.G., red.;
YEGOROVA, I.A., red.; TERENT'YEV, Yu.Ya., red.; TOLUB'YEVA,
Ye.P., red.; ARIFMETCHIKOV, F.V., red.; RODIONOV, Yu.I., red.;
BALASHOV, V.I., tekhn.red.; BUEHLAKOVA, O.Z., tekhn.red.

[Welding equipment; annotated catalog] Svarochnoe oborudovanie; katalog-spravochnik. Moskva, Tsentr.in-t nauchno-tekhn. informatsii elektrotekhn.promyshl. i priborostroeniia, 1960. 359 p. (MIRA 14:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut elektrosvarochnogo oborudovaniya (for Gromyko, Yegorova, Terent'yev, Tolub'yeva). 2. Gosudarstvennyy nauchno-tehnicheskiy komitet (for Arifmetchikov). 3. Tsentral'nyy institut nauchno-tehnicheskoy informatsii elektrotekhnicheskoy promyshlennosti i priborostroyeniya (for Rodionov).

(Welding--Equipment and supplies)

85400

15400 also 2708

S/135/60,000/012/007/010
A006/A001AUTHOR Terent'yev, Yu.Ya., EngineerTITLE Resistance Welding

PERIODICAL: Svarochnye proizvedstva, 1960 No. 12, pp. 26-30

TEXT. The author reports on a number of machines shown in an exhibition including, besides multi-purpose conventional resistance welding machines, various special units. The 400-1,000 kvamp MTПT-600 (MIFI-600) pulse machine (Figure 2) is intended to weld large-size light alloy work of up to 4.5 + 4.5 mm thickness. A three-phase feed system, an ignitron rectifier and a special pneumatic multi-diaphragm upper electrode drive, ensure high-quality weld joints and moderate power consumption from the three-phase network. The electric circuit includes a device stabilizing the welding current during voltage fluctuations, and ensures variable current pulses and intensities on the electrodes, according to the programmed values. As a result, the diameter and penetration of the welded spot can be regulated. The 500 kvamp MC Л-500 (MSL-500) machine (Figure 3) is intended for operation in pipewelding shops and continuous etching and cold rolling lines of non-ferrous metal strips. The machine is used for butt welding with continuous fusion of the strip ends which are 1.5-6 mm thick and 100-500 mm wide. The multi-

Card 1/10

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S/135/60,000,012,007/010

A006/A001

Resistance Welding

electrode FA3-51 (GAZ-51) machine (Figure 4) can be used to weld automobile oil crankcases and is operating in the pressing assembly and welding line. After the crankcase has been placed on the receiving table, the machine delivers the work piece automatically to the electrodes and welds it simultaneously on 18 spots. Subsequently the welded crankcase is removed by automatic clamps. The efficiency is 120 crankcases per hour. The servo-mechanisms of welding pistols are hydraulic driven and for this purpose the machine is equipped with an individual pump station. The K-149 machine serves to butt-weld tubular structures. Among the equipment for welding reinforced concrete fixtures is a machine (Figure 5) designed by A.M. Kvasov, a Moscow locksmith-innovator. It is intended for the manufacture of cylindrical frames from 10-16 mm diameter rods and 4.6 mm wire. After the rods up to 6 m length have been arranged and fastened in the rotary face plate, the wire is rolled on the longitudinal rods, thus forming the frame. Welding is performed at each cross point of the fixture elements. The whole cycle is automated. The welding current is supplied by two copper rollers and the necessary force on the rollers is produced by springs. An electronic time control regulates the switching of the welding current. The frames can be welded at a speed of 50 m per hour. The over-head MTPK-1 (MTPK-1) and MPTP-1 (MRTP-1) type machines for spot and seam-spot welding of low-alloy and stainless 2.0 + 2.0 mm thick steels have

Card 2/10

85470

S/135/60/000,012/007/010
A006/AC01

Resistance Welding

tongs with 600 mm operational length of the electrodes. The tongs are located in rectangular overhead devices and can be easily manipulated under assembly conditions. The small-size 25 kvamp K-165 tongs weigh 20 kg and are intended for welding up to 2.0 + 2.0 mm thick steel parts, they are pneumatic driven and produce 90 welds per minute. The FA3 (GAZ) tongs (Figure 7) for seam-spot welding of up to 1.5 + 1.5 mm thick steel sheets are equipped with a pneumatic drive which provides for the stepped roller rotation with the aid of a ratchet. The K-155 type overhead machine can be used on the site for butt welding of rails and the KTCA-1 (KTSA-1) machine for butt welding of 219-529-mm-diameter-pipes. The W020.012 (I020.012) machine (Figure 8) is used for the assembly and welding of internal fixtures in electric vacuum and semiconductor equipment. The light-weight low-inertia head of the machine allows the production of up to 4 welds per second. The W020.017 (I020.017) machine is used for the assembly and welding of internal fixtures in high-frequency devices, generator valves, and high power gas-discharge equipment. The electric circuit of the machine is located in extensible units and ensures the preliminary heating of the spot to be welded by modulated power frequency pulses and welding by polar current pulses. The press-welding automatic machine shown in Figure 9 manufactures contact springs for multi-contact plug-connectors. After the coil with a German silver strip has been mounted, the automatic machine performs

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Card 3/10

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A006/A001

Resistance Welding

continuously the following basic operations: cutting of the gauged blank, bending and assembly of the spring; welding; perforation of the stem; cutting of the stem to the shape and size required; removal of the finished work into a collecting bin. The efficiency of the machine is 2,500 springs per hour. There is also a great number of equipment shown for the control and measurement of basic welding parameters. The *PBC*-1 (RVS-1) device (Figure 10) measures the passage of the welding current within the limits 0.02-2 sec. The basic components of the device are two counting decades of "units" and "tens" assembled on MTX-90 (MIKh-90) type non-filament thyratrons. The *PTC*-1 (RTS-1) type device serves to record the welding current and the power of the secondary circuit. The welding current can be measured within 4-200 kamp and power within 35-500 kw. The basic component of the device is a germanium pick-up of the Hall effect, in the form of an extensible probe. A multi-purpose device can be used to measure the welding current within 2-20 kamp, the time of the welding current passage and the force upon the electrodes up to 500 kg. The *ACT*-2 (AST-2) type device is used to measure the welding current, and the *M3*-2 (ME-2) device to regulate the current type during spot welding. The *TII*-88-35 (IP-88-3B) type thermal interrupter produces high quality joints and eliminates rejects caused by non-fusion or burning. It is based on the principle of heat control of the spot welding process. The basic

Card 4/10

854

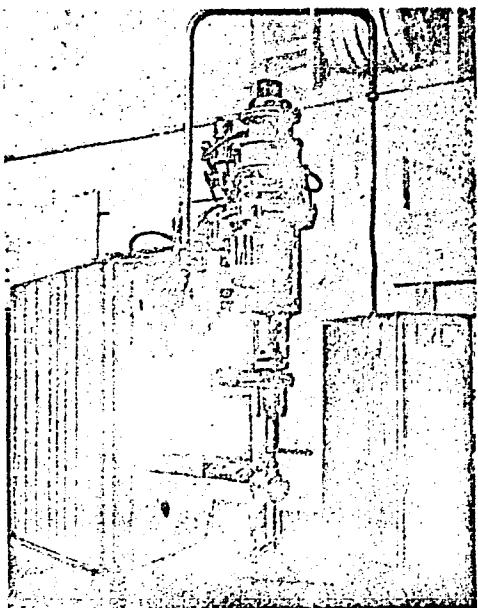
S/135/60/000/012/007/010
A006/A001

Resistance Welding

sensitive component of the thermoregulator is a special electrode with a thermo-couple which is used to command the switching-off of the welding current, when the required temperature has been attained in the "electrode-part" contact. Besides the described machines, various posters were exhibited demonstrating new welding technologies, such as resistance welding of rails with subsequent heat treatment of the sole; projection welding of hot-rolled steel or removal of internal burrs in resistance welding of pipes by blowing with an oxygen-air mixture.

Card 5/10

Resistance Welding



Card 6/10

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S/135/60/000/012/007/010
A006/A001

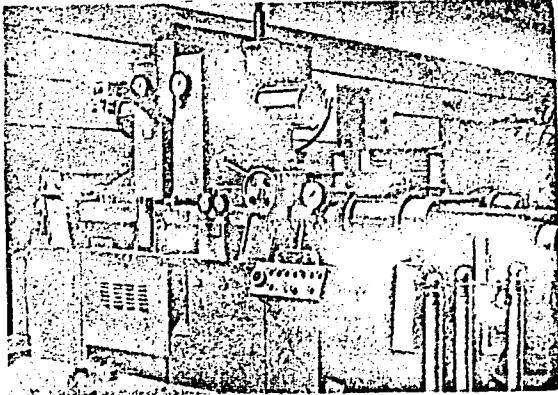
Figure 2.

The MTPT-600 machine for spot welding
of light alloys

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A006/A001

Resistance Welding



X

Figure 3. The MSL-500 machine for fusion
butt welding of non-ferrous and ferrous
metal strips

Card 7/10

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A006/A001

Resistance Welding

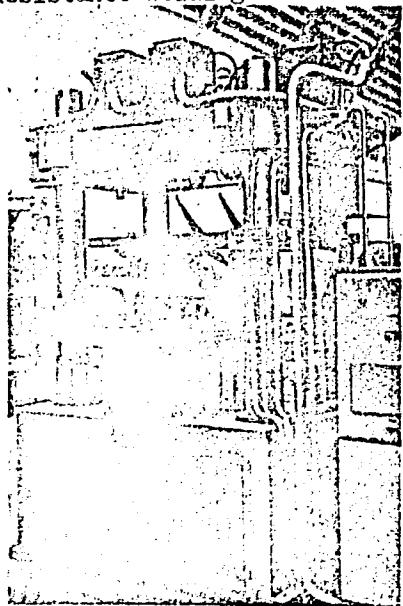


Figure 4.

A special GAZ-51 multi-electrode machine
for welding automobile oil crankshafts

X

Card 8/10

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Resistance Welding

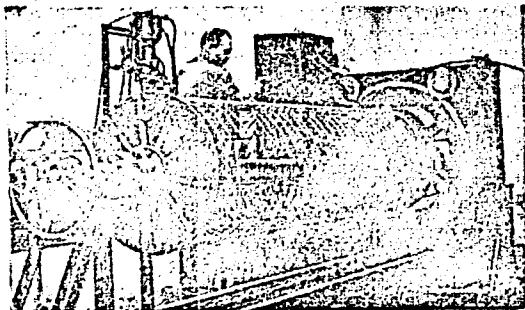


Figure 5. A machine for welding wire frames of cylindrical shape

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A006/A001

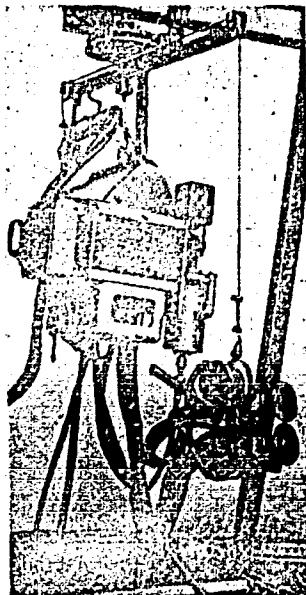


Figure 7. GAZ
tongs for seam-spot
welding

Card 9/10

Resistance Welding

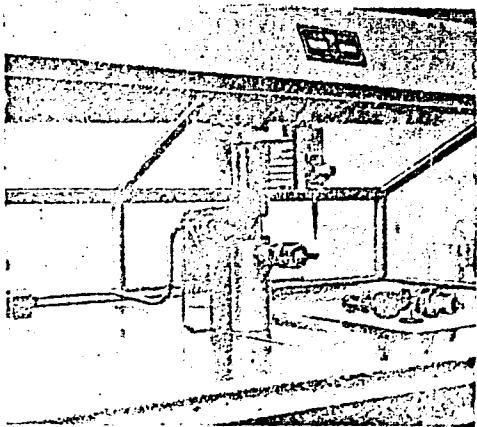


Figure 8. The I020.012 type spot welding machine
There are 10 figures.

Card 10/10

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S/135/60/100/012/007/010
A006/A001

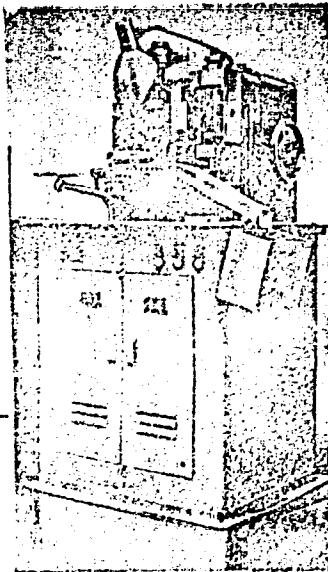


Figure 9. A press-welding automatic machine for the manufacture of contact springs of plug connectors

S/125/60/000/007/009/010
A161/A029

AUTHOR: Terent'yev, Yu.Ya.

TITLE: Catalogues of Welding Equipment

PERIODICAL: Avtomatischekaya svarka, 1960, No. 7, pp. 94 - 95

TEXT: Publication of two welding equipment catalogues is announced. One catalogue, "Svarochnye oborudovaniye" ("Welding Equipment"), has been prepared by Vsesoyuznyy nauchno-issledovatel'skiy institut elektrosvarochnogo oborudovaniya (All-Union Scientific Research Institute of Welding Equipment) in cooperation with industry works and institutes developing or producing welding equipment. It has seven chapters: 1 and 2 - arc welding equipment for series and piece production, 3 and 4 - resistance welding equipment for series and piece production, 5 and 6 - control equipment and 7 - equipment for new welding processes. The 7th chapter includes equipment for friction welding, cold pressure welding, diffusion welding in vacuum, by electron beam, by ultrasound and high-frequency welding of plastics. The second catalogue contains 35 descriptions of equipment developed by the Institute of Welding Equipment: welding "tractors", special automatic machines for gas-shielded welding under flux, universal machines for under-flux and

Card 1/2

Catalogues of Welding Equipment

S/125/60/000/007/009/010
A161/A029

electroslag welding; special welders for surfacing under-flux and with carbon dioxide for shielding. The first of the catalogues is delivered on subscription (Moscow E-37, mailbox 3016). ✓

Card 2/2

BARANOVA, S.A.; KORKIN, Yu.G.; TEREN'YEV, Yu.Ya.; FAYGENBAUM, D.S.;
ALEKSEYEVSKAYA, Ye.A., red.; KOVAL'SKAYA, I.F., tekhn. red.

[New types of general purpose resistance welding machines in the
United States; a review] Novye konstruktsii kontaktnykh svarochnykh
mashin obshchego naznacheniia v SShA; obzor. Moskva, TSentr. in-t
nauchno-tekhn. informatsii mashinostroeniia, 1961. 52 p.
(MIRA 14:11)

(United States—Electric welding—Equipment and supplies)

SARAFANOV, S.G., kand. tekhn. nauk; TAZ'BA, S.M.; TERENT'YEV, Yu.Ya.;
FEDER, Ye.S.; ALEKSEYEV, A.A., prof., nauchnyy red.; PETRENKO,
N.P., red. izd-va; VORONETSKAYA, L.V., tekhn. red.

[Electric welding equipment and automation of welding opera-
tions in the construction industry] Elektricsvarochnoe oborudo-
vaniye i avtomatizatsiya svarochnykh rabot v stroitel'stve.
Pod red. S.G. Sarafanova. Leningrad, Gosstroizdat, 1962. 350 p.
(MIRA 16:1)

(Electric welding)
(Construction industry--Electric equipment)

TERENT'YEV, Yuryi Yakovlevich; GROMYKO, Leonid Georgiyevich;
KOCHANOVSKIY, N.I., nauchnyy red.; POPOV, V.N., red.;
TOKER, A.M., tekhn. red.

[Equipment and control instruments for resistance welding]
Oborudovanie i apparatura dlja kontaktnoi svarki; al'bom.
Moskva, Proftekhnizdat, 1962. 137 p. (MIRA 15:11)
(Electric welding—Equipment and supplies)

TERENT'Yeva, A. A.

"Pre-Natal Development of the Coat of Some Fine-Wooled Breeds of Sheep,"
Dok. AN, 25, No. 6, 1939.

LASHKEVICH, A.M.; TERENT'YEVA, A.A.; IVANOVA, L.S.; BORODULINA, M.A.; VELICHENKO, I.N.; NIKULENKO, V.S.; KONSHINA, T.I.; SHAKHOVA, T.P.; NYASHINA, A.A.; YASINSKAYA, Z.A.; AGAL'TSEVA, N.B.; SEL'MENSKAYA, Ye.G.; KRETSMER, V.L.; KONONOVICH, L.K.; FEDORAYEVA, A.M.; TKACHUK, L.Ya.; VYATKINA, G.A.; SLOUSHCH, V.S.; RACHINSKAYA, L.N.; PORTNAYA, R.Yu.; KARAKOVSKAYA, E.M.; POKROVSKAYA, M.A.; KORNEVA, A.I.; YERSHOVA, K.F., otv. red.; Prinimal uchastiye KAMANOV, M.I., red.; LAGAREVA, A.P., otv. za vypusk; NIKITINA, I.P., tekhn. red.

[Economy of Novosibirsk Province; collection of statistics] Narodnoe khoziaistvo Novosibirskoi oblasti; statisticheskii sbornik. Novosibirsk, Gosstatizdat TsSU SSSR, 1961. 331 p. (MIRA 15:6)

1. Novosibirsk. Oblastnoye statisticheskoye upravleniye. 2. Nachal'nik Statisticheskogo Upravleniya Novosibirskoy oblasti (for Yershov). 3. Zamestitel' nachal'nika Statisticheskogo Upravleniya Novosibirskoy oblasti (for Kamanov).
(Novosibirsk Province—Economic conditions)

TERNOVSKIY, M.F.; TERENT'YEVA, A.I.

Role of grafting in increasing the crossability of Nicotiana species. Dokl. AN SSSR 132 no.4:932-935 Je '60. (MIRA 13:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tabaka i makhorki, g. Krasnodar. Predstavлено академиком N.V. TSitsinym.
(Tobacco breeding) (Grafting)

TERENT'YEVA, A.I.; KOLESNIKOVA, L.Ya.

Diagnosis of mitral stenosis. Vop. pat. krovi i krovooibr. no.6:
89-93 '61. (MIRA 16:3)
(MITRAL VALVE--DISEASES)

TERENT'YEVA, A.I.

Importance of a preliminary tonsillectomy in commissurotomy of the heart. Trudy LFMI 31 no.2:114-117 '63. (MTRA 17:10)

I. Iz fakul'tetskoy terapeuticheskoy kliniki Leningradskogo pediatricheskogo meditsinskogo Instituta.

TERENT'YEVA, A.

Lyrid meteors in 1954. Astron.tsir. no.149:23-25 My '54. (MLR 7:7)

1. Gor'kovskoye otdeleniye VAGO, meteornyy otdel.
(Meteors--April)

TERENT'YEVA, A.

Radiant of the Taurids according to 1953 telescopic observations.
(MLRA 8:3)
Astron.tsir. no.150:15 Je '54.

1. Gor'kovskoye otdeleniye VAOO, meteornyy otdel.
(Meteors--November)

TERENT'YEVA, A.K.

Some results of observations on telescopic meteors in Ashkhabad
during 1954. Izv.AN Turk.SSR no.6:94-95 '55. (MLRA 9:5)

1. Institut fiziki i geofiziki AN Turkmeneskoy SSR.
(Ashkhabad--Meteora)

TERENT'YEVA, A.K.

New determination of the altitudes of telescopic meteors at
Ashkhabad (1948-1955). Astron.tsirk. no.169:13-16 '56.
(Meteors) (MIRA 9:10)

TERENT'YEVA, A.K.

Telescopic observations of meteors at sunrise and sunset. Astron.
tsirk. no.169:16-17 '56. (MLRA 9:10)
(Meteors)

TERENT'YEVA, A.K.

Aurora borealis in the Ukraine. Astron. tsir. no.177:23 F '57.
(MLRA 10:6)
1. Astronomicheskaya observatoriya Kiyevskogo gosuniversiteta im.
T.G. Shevchenko.
(Auroras)

TERENT'YEVA, A.K.

Statistics of the directions of telescopic meteors. Astron. trir.
no. 183:18-20 J1 '97. (MIRA 11:3)

1. Kiyevskoye otdeleniye Vsesoyuznogo astronomo-geodezicheskogo
obshchestva i Astronomicheskaya observatoriya Kiyevskogo gosudar-
stvennogo universiteta.
(Meteors)

THRENT'YNA, A.K.

Relative distribution of telescopic meteors along the height. Astron.
tsir. no.183:20-21 Jl '57. (MIRA 11:3)

1. Kiyevskoye otdeleniye Vsesoyuznogo astronomo-geodesicheskogo
obshchestva i Astronomicheskaya observatoriya Kiyevskogo gosudar-
stvennogo universiteta.

(Meteors)

TERENT'YEVA, A.K.

Preliminary results of visual observations of meteors in Kiev
in 1957. Biul. Kom. po komet i meteor. AN SSSR no.3:27-29 '58

(MIRA 13:3)

1. Astronomicheskaya observatoriya Kiievskogo gosuniversiteta im.
T. G. Shevchenko.
(Meteors)

SOV/169-59-3-2982

Translation from: Referativnyy zhurnal, Geofizika, 1959, Nr 3, p 137 (USSR)

AUTHOR: Terent'yeva, A.K.

TITLE: Catalog of 200 Telescopic Meteors According to Observations in
Ashkhabad During the Period From 1951 to 1954

PERIODICAL: Tr. In-ta fiz. i geofiz. AS TurkmSSR, 1958, Vol 4, pp 75 - 83

ABSTRACT: The catalog and brief descriptions of 200 telescopic meteors
are given. The observations were performed in Ashkhabad during
the period from 1951 to 1954, with exception of nine telescopic
meteors, i.e. Nrs 192 to 200, which were observed by the author
in Gor'kiy from March to May 1954. ✓

Card 1/1

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S/169/60/000/006/017/021
A005/A001

9.9000

Translation from: Referativnyy zhurnal, Geofizika, 1960, No. 6, p. 182, # 6773

AUTHOR: Terent'yeva, A. K.

TITLE: Observations of the Meteoric Ursid Stream From an Aircraft

PERIODICAL: Astron. tsirkulyar, 1959, 18 iyunya, No. 203, pp. 14-16

TEXT: The observations were carried out in December 23, 1958, from 1^h 23^m to 3^h 33^m (Ut). 34 meteors of the Ursid stream were recorded. The data on the activity of the meteors and the sporadic background are tabulated. A comparison with parallel radar observations is performed. No increased activity of the Ursid meteoric stream was detected.

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

TEREVT'YEVA, A.X.

Data on the activity of Geminids 1958 and Quadrantids 1959
meteor showers. Astron.tsir. no.203:17-19 Je '59.
(MIRA 13:4)

1. Kiyevskoye otdeleniya Vsesoyuznogo astronomo-geodesicheskogo
obshchestva.
(Metors)

TERENT'YEVA, A.K.

Observation of Draconids in 1959. Astron.tsir. no.206:10-
12 D '59. (MIRA 13:6)

1. Astronomicheskaya observatoriya Kiyavskogo gosuniversiteta.
(Meteors--October)

TERENT'YEVA, A.K.

Visual observations of meteors. Mezhdunar. geofiz. god [Kiev] no.2:
47c49 '60. (MIRA 14:1)

1. Astronomical Observatory of Kiyev State University.
(Meteors)

S/035/61/000/011/022/028
A001/A101

AUTHOR: Terent'yeva, A. K.

TITLE: Brief information on the activity of some meteoric streams in 1958

PERIODICAL: Referativnyy zhurnal. Astronomiya i Geodeziya, no. 11, 1961, 75 - 76,
abstract 11A545 ("Byul. Vses. astron.- geod. o-va", 1960, no. 26
(33), 36 - 38)

TEXT: Information is given on the results of visual observations of autumn
meteor streams. Orionids were observed during 2.1 hours on 24 - 25 October; +
out of 13 recorded meteors belong to the stream. Leonids were observed during
1.8 hours on 10 - 11 November; 2 out of 6 meteors belong to the stream. The
radiant coordinates were determined as follows: $\alpha = 150^{\circ}.0$ and $\delta = +25^{\circ}.7$ (1950.0).
Simultaneously telescopic observations of Leonids were conducted by means of a
Zeiss binocular with 12X magnification; in 1.7 hours 2 telemeteors of the stream
were recorded with exactly the same radiant coordinates. Andromedids were observed
during 1.3 hours on 19 - 20 November; 6 meteors were recorded but none belonged
to the stream. During these observations a new radiant (from 3 meteors) was
noticed whose coordinates were $\alpha = 51^{\circ}.4$ and $\delta = +50^{\circ}.0$. Geminids were observed

Card 1/2

Brief information on the activity of...

S/035/61/000/011/022/028
A001/A101

on 8, 9 and 11 December; their relative activity varied from 23 to 57%. Ursids were observed from aircraft during 2 hours on 28 December; their average relative activity was 42%.

P. Babadzhanov

↙

[Abstracter's note: Complete translation]

Card 2/2

ZOTKIN, I.T. Prinimali uchastiye: MARTYHENKO, V.V.; SIMAKINA, Ye.G.; TERENT'YEVA, A.K.; KHOTINOK, R.L. FEDYNSKIY, V.V., otv.red.; BERKGAUT, V.G., red.izd-va; YEPIFANOVA, L., tekhn.red.

[Instructions for observing meteors] Instruktsiia dlja nabliudeniia meteorov. Muskva, Izd-vo Akad.nauk SSSR, 1961. 52 p.
(MIRA 14:4)

(Meteors)

41296

S/035/62/000/010/055/128
A001/A101

5/11/70
AUTHOR: Benyukh, V.V., Gavlovskaya, A. A., Konopleva, V. P., Krivutza, Yu.N.,
Kruchinenko, V. G., Sandakova, Ye. V., Terent'yeva, A. K.

TITLE: Photographic observations of meteors at the observatory of the
Kiev University in 1957

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 10, 1962, 62,
abstract 10A459 ("Sb. rabot po Mezhdunar. geofiz. godu. Kiyevsk.
un-t", 1961, no. 1, 3 - 15)

TEXT: Double photographic observations of meteors were conducted by means
of fixed four-camera (D=100 mm, F=250 mm) installations during all clear moon-
less nights of the second half of 1957. A shutter rotating at a speed of 1,400
rpa was mounted in front of the cameras at one of the points 141 meteors were
photographed, of which 14 from two points. The results of processing 10 meteors
are presented in the article. The photographs were measured with a KIM-3
(KIM-3) measuring machine. Five meteors were processed on a "Strela" computer,
the remaining ones - manually. Photographic photometry of the meteors was carried

Card 1/2

Photographic observations of meteors at the...

A/035/62/000/010/055/128
A001/A101

out by relating to diurnal stellar trails, and for some of them also by relating to images of artificial meteors. The tables yield the results of determining flight instants (with an accuracy of 2 - 29 min), coordinates of radiants, velocity and braking in the middle section of the visible trajectory, extra-atmospheric velocity, altitude of the start, maximum brightness and end of the visible trail. Stellar magnitudes, masses and corresponding densities of the atmosphere are given for individual points of the trajectory. There are 8 references.

P. Babadzhanov

[Abstracter's note: Complete translation]

Card 2/2

3/269/63/000/001/031/032
A001/A101

AUTHOR: Terent'yeva, A. K.

TITLE: Results of observations of meteoric streams of δ -Aquarids and Perseids in 1959

PERIODICAL: Referativnyy zhurnal, Astronomiya, no. 1, 1963, 76,
abstract 1.51.516 ("Byul. Komis. po kometam i meteoram Astron. soveta
AN SSSR", 1961, no. 5, 29 - 36)

TEXT: The meteor expedition of the Astronomical Observatory and Kiyev University observed at the Pirkuli mountain (Azerbaijan SSR) the stream of δ -Aquarids and other meteoric streams occurring simultaneously in July 1959. 1346 meteors were observed from July 24 to August 4, of which 157 were δ -Aquarids, 99 - Perseids, and 24 - Lyrids. The observations of Perseids were continued at Tripol'-ye; on August 8 - 15 were observed 420 meteors, of which 40 were Perseids. The maximum of δ -Aquarid activity took place at $L\odot = 123.7$. The true number of meteors of a given stellar magnitude was determined by Opik's formulae with allowance for coefficients of meteor detectability. As a result, the density of the

Card 1/2

Results of observations of...

S/269/63/000/001/031/032
A001/A101

meteor stream of the given stellar magnitude was calculated for δ -Aquarids, Perseids and sporadic ones in the range of stellar magnitudes from -2^m to $+5^m$, as well as mass (M) distribution of meteoric bodies (δ -Aquarids, $f(M) \sim 1/M^{2.0}$; Perseids, $f(M) \sim 1/M^{1.9}$; sporadic ones $\sim 1/M^{2.2}$), and the spatial density of meteoric bodies, which are more massive than mass M corresponding to meteors of 5^m , for δ -Aquarids ($12 \times 10^{-9} \text{ km}^{-3}$) and Perseids ($3 \times 10^{-9} \text{ km}^{-3}$). There are 5 references.

S. Mayeva

[Abstracter's note: Complete translation]

Card 2/2

S/831/62/000/008/015/016
EO32/E114

AUTHOR: Terent'yeva, A.K.

TITLE: Visual observations of meteors at Kiev

SOURCE: Ionosfernyye issledovaniya (meteory). Sbornik statey, no.8. V razdel programmy MGG (ionosfera). Mezhdunarod. geofiz. kom. AN SSSR. Moscow, Izd-vo AN SSSR, 1962, 110-111

TEXT: The Astronomicheskaya observatoriya Kievskogo gosudarstvennogo universiteta (Astronomical Observatory of the Kiev State University) has carried out visual observations of meteors in accordance with the IGY programme. Each observer had a field of view of 50-60°. Telescopic meteors were observed with Zeiss binoculars (X 12) and a 15" refractor. About 1.000 meteors were observed during 1957-1958. Of these, 754 were selected for the determination of the luminosity function of sporadic meteors in the stellar magnitude range between -3 and +5. The logarithm of the probable number of meteors calculated from the formulae given by E.K. Epik (Izv. Petrogradskogo nauchnogo in-ta im. Lesgafta, 5, 1922) and corrected for the personal equation for each of the

Card 1/2

ACCESSION NR: AT4034463

S/3091/63/000/002/003/0010

AUTHOR: Benyukh, V. V.; VII'chinskaya, S. P.; Dorenko, A. A.; Krivutza, Yu. N.;
Sandakova, Ye. V.; Terent'yeva, A. K.; Sherbaum, L. M.TITLE: Photographic observations of meteors in 1958 at the Klyevskaya astronomi-
cheskaya observatoriya (Kiev Astronomical Observatory)SOURCE: Klyev. Universitet. Sbornik rabot po Mezhdunarodnomu geofizicheskому
godu, no. 2, 1963, 3-10

TOPIC TAGS: astronomy, meteor, upper atmosphere, photographic meteor

ABSTRACT: In 1958 photographic observations of meteors were made at two base
stations at Kiev University using an AS-11 meteor patrol with fixed cameras. The
description of the patrol apparatus, coordinates of the observation stations and
other general information on the observation method have been presented earlier
(Sbornik stately po MGG Klyavskogo universiteta, No. 1, 1960). The methods and
formulas used in determination of various meteor parameters are reviewed briefly.
The basic contribution of the paper is presentation of data obtained by processing
of 21 base photographs of meteors. Table 1 gives general information concerning
the 21 meteors - angular length of the meteor in degrees, the value of braking at
the heights H_1 and H_2 , intra-atmospheric velocity, maximum absolute stellar magni-
tude 1/2.

ACCESSION NR: AT4034463

tude reduced to the international visual system, heights of appearance and disappearance and other parameters. Table 2 gives information on each meteor at several points of the path. "The following persons participated in the processing of the published data: I. V. Kozhevnikova, L. M. Kozhevnikov, V. G. Kruchinenco, A. K. Suslov and Zh. M. Shcherban". Orig. art. has 7 formulas and 2 tables.

ASSOCIATION: Kiyevskiy Universitet (Kiev University)

SUBMITTED: 00

DATE ACQ: 07May64

ENCL: 00

SUB CODE: AA

NO REF Sov: 003

OTHER: 001

Card 2/2

TERENT'YEVA, A.K.

Orbits of minor meteor showers. Astron. tsir. no. 249:1-4 Je '63.
(MIRA 17:5)

1. Kiyevskiy gosudarstvennyy universitet.

TERENT'YEVA, A.K.

Orbits of minor meteor showers; supplement. Astron. tsir.
no.264:1-8 0'63. (MIRA 17:5)

1. Kiyevskiy gosudarstvennyy universitet.

L 37649-65 IEC-i/EWC(v)/IEC(t)/EWT(l)/EWA(d) Pa-5/Pa-2 GH

ACCESSION NR: AT5005135

8/31/64/000/016/0011/0015

AUTHOR: Terent'yeva, A. K.

31

32

TITLE: The interrelationship among small bodies of the solar system

6+1

SOURCE: AN UkrSSR. Mezhdunarodnyy geofizicheskiy Komitet. Informatsionnyy byulleten', no. 6, 1964. Materialy Mezhdunarodnogo Geofizicheskogo Goda (Materials of the International Geophysical Year), 11-15

TOPIC TAGS: asteroid, meteorite, comet, meteor, solar system

ABSTRACT: A study has been made of the distribution of small bodies (asteroids, meteorites, comets and meteor particles) using as a criterion the value of the constant of the Jacobi integral in the restricted three-body problem. Emphasis is on the general interrelationship among small bodies rather than on the struc-

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represented graphically in Fig. 1 of the Enclosure. The values h are pictorially
Card 1/8

APPROVED FOR RELEASE: 07/16/2001

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L 37649-65

ACCESSION NR: A75005135

the x -axis in units $h \cdot 10^7$; N , the relative frequency in percent, is plotted along the y -axis. It is concluded that asteroids, comets and meteorites form sharply defined independent groups concentrated in a rather narrow region of h , whereas the meteor particles are very scattered with a poorly defined maximum coinciding with the maximum of short-period comets. If this interrelationship is interpreted from the point of view of formation of meteor particles from other small bodies, there should be several sources of such "particles" but the principal source should be short-period comets. Some part of the asteroids and short-period comets form a transitional group of so-called cometoids. There also is a region where there is a possible interrelationship of asteroids, meteors, short-period comets and meteor particles simultaneously. It is known that some orbits of comets, meteor swarms and meteorites intersect at a single point in space, which undoubtedly indicates some interrelationship of all these bodies. The present existence of such a system suggests that it must have been formed quite recently. Cometary groups a and b (see Fig. 1 of the Enclosure) for the most part reveal no interrelationship except in individual cases. Orig. art. has 5 formulas and 1 figure.

ASSOCIATION: Kiyevskiy gosudarstvenny universitet (Kiev State University).

Card 2/5

I. 23296-65 EWT(1)/ERG(v)/EWA(d)/EEC-4/EEC(t) Pe-5/Re-2 GW
a. CECULON NR: AR5001325 S/0269/64/000/010/0077/0077

SOURCE: Ref. zh. Astronomiya. Otdel'nyy vypusk, Abs. 10.51.513

AUTHOR: Terent'yeva, A. K. 8

TITLE: Some characteristics and properties of small meteor swarms

CITED SOURCE: Astron. tsirkulyar, no. 277, yanv. 8, 1964, 1-3

TOPIC TAGS: upper atmosphere, meteor stream, meteor swarm, meteor radiant, meteor orbit

TRANSLATION: On the basis of a study of the results of photographic and visual observations of meteors, it has been possible to define the following characteristics of small meteor swarms: a number of elliptical streams have large radiant areas; there are some meteor swarms having a northern and southern branch; there are some swarms with very small perihelion distances (0.05-0.07 a.u.); some swarms have orbital planes perpendicular to the equator; there are also swarms whose orbits lie entirely within the earth's orbit and swarms whose orbits coincide with the earth's orbit. Most meteor streams move near the plane of the ecliptic.
P. Babaizhanov.

Card 1/1 SU3 CODE: AA, ES ENCL: 00

TERENT'YEVA, A.K.

Investigation of δ -Aquarid meteor shower. Biul. Kom. po komet.
i meteor. AN SSSR no. 11:17-32 '65.

Space structure of δ -Arietids and Leonids. Ibid.:33-35

l. Kiyevskiy gosudarstvennyy universitet. (MIRA 18:12)

TERENT'YEVA, A.P., RUKHADZE, YE.G.

Compounds, Complex

Theory of intracomplex compounds as analytical forms. Uch. zap. Mosk. un No 132 1950.

9. Monthly List of Russian Accessions, Library of Congress, OCTOBER 1952 ~~1952~~ Uncl.

ACCESSION NR: AT4033995

S/0000/63/010/000/0123/0128

AUTHOR: Terent'yev, A. P.; Rukhadze, Ye. G.; Mochalina, I. G.; Panova, G. V.

TITLE: A study of the chelate polymer series. IX. Polymers of some thioamides and polythioamides with metals

SOURCE: Geterotseptye vysokomolekulyarnyye soyedineniya (Heterochain macromolecular compounds); sbornik statey. Moscow, Izd-vo "Nauka," 1963, 123-128

TOPIC TAGS: chelate compound, polymer, chelate polymer, thioamide, polythioamide, chelate structural property, polymer structure, chelate trans configuration, chelate cis configuration, polymerization

ABSTRACT: A large number of chelate polymers were synthesized by equimolecular reactions between thioamides or polythioamides of alpha-picoline or 2,6-lutidine in a suitable solvent (dimethylformamide, chloroform, benzene) and methanol solutions of metallic salts (Cu, Ni, Zn, Co, Mn). Yields ranged from 39 to 93%, calculated N content from 9.00 to 11.60%, determined N content from 8.12 to 11.89%, respective metal contents from 10.33 to 15.93 and 9.96 to 15.85%. The polymers obtained were yellow, green, cinnamon or orange, or in light, dark and reddish shades of these colors. Three types of chelate structures are illustrated, the presence of tetra- and pentacyclic linkages is suggested, and the authors discuss

Card 1/2

ACCESSION NR: AT4033995

the feasibility of trans- and cis-configurations. Orig. art. has: 2 tables and numerous chemical formulas.

ASSOCIATION: Moskovskiy gosudarstvennyiy universitet im. M. V. Lomonosova
(Moscow State University)

SUBMITTED: 31Jul62

DATE ACQ: 30Apr64

ENCL: 00

SUB CODE: OC

NO REF Sov: 005

OTHER: 001

Card 2/2

TERENT'YEVA, A.P.; GRACHEVA, R.A.; TITOVA, L.F.

Synthesis of carboxylic acids through furan derivatives. Part 8:
Cleavage of α -(2-furyl)ethylamine and preparation of optically
active benzoylalanine. Zhur.ob.khim. 34 no.2:513-515 F '64.

(MIRA 17:3)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.

SOV/112-57-9-18445

Translation from: Referativnyy zhurnal, Elektrotehnika, 1957, Nr 9, p 49 (USSR)

AUTHOR: Terent'yeva, A. Ya.

TITLE: Methods of Forecasting the Vernal Runoff of Zavolzh'ye Rivers
(Metodika prognozov vesennego stoka rek Zavolzh'ya)

PERIODICAL: Tr. Leningr. gidrometeorol. in-ta, 1956, Nr 4, pp 198-211

ABSTRACT: An attempt is made to develop a method of forecasting daily runoff during the vernal flood of Zavolzh'ye (those rivers east of the Volga); this is a short-range forecast (predicted 1 or 2 days in advance). Applicability of A. M. Alekhin's method for a long-range* vernal-flood forecast is verified. Determination of snow amount is considered in detail; snow storage is a fundamental initial material for analysis and estimation of the vernal runoff (accuracy of snow-storage determination, number of snow-measuring stations in the basin, verification of the applicability of Ye. G. Popov's method for determining melt water, etc.). Existing methods of allowing for losses in forecasting the vernal runoff are analyzed; a juxtaposition of hydrographs calculated on the basis of

* 10 to 30 days in advance

Card 1/3

SOV/112-57-9-18445

Methods of Forecasting the Vernal Runoff of Zavolzh'ye Rivers

an average runoff factor and a differential daily factor (Ye. G. Popov's method, and N. D. ~~Dmitrievaya~~'s method, the trend method, etc.). An analysis has shown that none of the above methods can supply a reliable forecast of the vernal runoff. To reduce forecast errors, typical loss curves were developed on the basis of the integral vernal-runoff loss curves. In this method, the total amount of runoff, from the beginning of the flood up to the day in question, is calculated on the basis of the integral sums of melt-and-rain water inflow into the basin area. Analytical calculating procedure is presented, and fundamental advantages of the method are noted. A "typical" loss curve was graphed, and a connection between the integral total loss and the maximum water storage in the snow blanket was established. A step-by-step forecast procedure made according to the above relationship and the "typical" integral curve is described. An evaluation has shown that the average firm amount ("obespechennost'") according to the above "integral" method is 89.2%, while the firm amount with the conventional differential method, if the runoff factor is calculated from the trend, is 80.7% or less, and the firm amount estimated from direct calculation

Card 2/3

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of a hydrograph by the trend method is still less (71.5%). It follows, therefore, that the "integral" method is more correct and can be used for issuing operating forecasts. The article also attempts to apply Yu. A. Alekhin's method for long-term forecasts of the vernal runoff for the rivers situated east of the Volga River. The method is based on the following prerequisites: (1) On the basis of data observed in previous years, typical curves of melt-water inflow depending on the nature of atmospheric circulation in February are plotted; from these curves the ordinates of a snow-melting curve can be determined; (2) The loss curve shape is determined on the basis of a typical curve of daily runoff factors; (3) Thus obtained, ordinates of the typical snow-melting curves, which allow for losses, combined with the forecast amount of vernal runoff, help to determine absolute values of daily discharges 10-30 days ahead. The above forecast method was verified in cases of basins of 2,000 to 22,500 km², and satisfactory results were obtained with all basins. It can be assumed, therefore, that the method is applicable to basins of any area. 9 figures and 5 tables are presented. Bibliography: 9 items.

Yu. M. S.

Card 3/3

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(LEUKOCYTES

eff. of blood plasma & bone marrow extracts from leukemia patients on leukocyte cultures)

(PLASMA

from leukemia patients, eff. on leukocyte cultures from normal blood)

(BONE MARROW

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(BONE MARROW, effect of drugs on,
acetylcholine & epinephrine on hemopoietic cells in
tissue culture (Rus))
(ACETYLCHOLINE, effects,
on bone marrow hemopoietic cells in tissue culture (Rus))
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(LYMPHOMA, pathol.

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same)